Retrieval Retrieval

Retrieval

This section covers the following topics:

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- Cross-Reference User
- Cross-Reference Library
- Cross-Reference File
- Cross-Reference Utility
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Purpose of Retrieval Functions

The Retrieval subsystem of Natural Security may be used to retrieve information on the objects defined to Natural Security and on the existing relationships between these objects. It allows you to review the existing security profile definitions and their effects.

With Retrieval, you cannot do any Natural Security maintenance; you may only look at things.

How to Invoke Retrieval Functions

On the Main Menu, you enter code "R" for "Retrieval".

A window will be displayed. In the window, you mark an object type with a character or with the cursor (and, if you wish, use the Start Value and Type/Status options as described in the section Finding Your Way In Natural Security).

The selection list for that object type will be displayed.

The selection list can be scrolled as described in the section Finding Your Way In Natural Security).

From the selection list, you can invoke the following retrieval functions (possible code abbreviations are underlined):

Code	Function	Explanation
<u>D</u> Ι	Display	For each object type, the Display function is identical to the maintenance function of the same name as described in the appropriate maintenance section.
<u>X</u> R	Cross-Reference	The Cross-Reference functions for each object type are described in this section.

To invoke a specific function for an object, you mark the object with the appropriate function code in column "Co" on the selection list.

You may select various objects for various functions at the same time; that is, you can mark several objects on the screen with a function code. For each object marked, the appropriate processing screen will be displayed. You may then perform for one object after another the selected functions.

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Cross-Reference User Retrieval

Cross-Reference User

This function allows you to obtain the following information:

- a list of all base and compound applications to which a user is linked;
- a list of all libraries available to a user;
- a list of all DDMs/files a user's private library is linked to;
- a list of all groups a user belongs to;
- a list of all users contained in a given group;
- a list of all security profiles owned by a user;
- a list of all DDM/file security profiles where the user is "DDM Modifier";
- a list of all external objects to which a user is linked;
- the user-specific functional security specifications for the command processors for which functional security is defined for the user.
- a list of all utility profiles defined for a user.

On the User Retrieval selection list, you mark the user whose security profile you wish to cross-reference with function code "XR".

A window will be displayed, in which you can select one or more of the following items by marking them with any character:

Applications	Displays a list of all base and compound applications to which the user is linked.
Libraries	Displays a list of all libraries available to the user.
Linked Libraries	Displays a list of all libraries to which the user is linked (directly or via a group).
DDMs / Files	Displays a list of all DDMs to which the user's private library is linked.
Groups / Members	Displays a list of all groups to which the user belongs; if the user is a group, a list of all users contained in that group will be displayed.
Owned Objects	Displays a list of all security profiles of which the user is an owner.
DDM Modifier	Displays a list of all DDM/file security profiles in which the user is specified as "DDM Modifier".
External Objects	Displays a list of all external objects to which the user is linked.
Command Processors	Displays the functional security specifications for each command processor for which functional security is defined for the user.
Utilities	Displays a list of all user-specific and user-library specific utility profiles defined for the user.

Cross-Reference Library

This function allows you to obtain the following information:

- a list of all DDMs a library is linked to;
- a list of all users linked to a library;
- the functional security specifications for the command processors in the library.
- a list of all utility profiles defined for a library.

On the Library Retrieval selection list, you mark the library whose security profile you wish to cross-reference with function code "XR".

Retrieval Cross-Reference File

A window will be displayed, in which you can select one or more of the following items by marking them with any character:

DDMs / Files	Displays a list of all DDMs to which the library is linked.
Users	Displays a list of all users who are linked to the library.
Command Processors	Displays the functional security specifications for each command processor in the library for which functional security is defined.
Utilities	Displays a list of all library-specific and user-library specific utility profiles defined for the library.

Cross-Reference File

This function is only available on mainframe computers. It allows you to ascertain which libraries (and private libraries) are linked to a file.

On the File Retrieval selection list, you mark the file whose security profile you wish to cross-reference with function code "XR".

A window will be displayed, in which you can select one or both of the following items by marking them with any character:

Libraries	Displays a list of all libraries that are linked to the file.
Private Libraries	Displays a list of all users whose private libraries are linked to the file.

Cross-Reference Utility

This function allows you to ascertain which utility profiles exist for a utility.

On the Utility Retrieval selection list, you mark the utility whose profiles you wish to cross-reference with function code "XR".

A window will be displayed, in which you can select one or more of the following items by marking them with any character:

Library-Specific Profiles	Displays a list of all library-specific profiles defined for this utility (as well as the utility's default profile).
User-Specific and User-Library-Specific Profiles	Displays a list of all user-specific profiles and user-library-specific profiles defined for this utility.
All Profiles	Displays a list of all user-specific profiles, library-specific profiles and user-library-specific profiles, as well as the default profile defined for this utility.

Cross-Reference Application

This function allows you to ascertain which users are linked to an application.

On the Application Retrieval selection list, you mark the application whose security profile you wish to cross-reference with function code "XR". A list of all users who are linked to the application will be displayed.

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Cross-Reference External Object

This function allows you to ascertain which users are linked to an external object.

On the Retrieval selection list for a type of external object, you mark the object whose security profile you wish to cross-reference with function code "XR". A list of all users who are linked to the external object will be displayed.

Cross-Reference Mailbox

This function allows you to ascertain which users and which libraries a mailbox is assigned to.

On the Mailbox Retrieval selection list, you mark the mailbox whose security profile you wish to cross-reference with function code "XR".

A window will be displayed, in which you can select one or both of the following items by marking them with any character:

Libraries	Displays a list of all libraries to which the mailbox is assigned.
Users	Displays a list of all users to which the mailbox is assigned.



Retrieval in Batch Mode - Program RETRIEVE

You can obtain all retrieval information for all objects of a certain object type at the same time. For this purpose, the Natural Security library SYSSEC provides the program RETRIEVE. This program performs the Display and Cross-Reference functions for all objects of a certain object type; that is, it will output Display and Cross-Reference information for all selected objects.

The following information can be obtained:

- Output 1: a list of all selected objects, with basic information about each object;
- Output 2: display of security profiles of the selected objects;
- Output 3: cross-reference information about the selected objects;
- Output 4: display of security profiles of special links between users and libraries.

Various input parameters allow you to restrict the functions to a certain range of objects, and to determine the sequence in which the information is to be output. The input parameters for RETRIEVE are:

Object type: US for users, LI for libraries, FI for files (on mainframes only), MA for mailboxes, or the corresponding code for a type of external object.			
	User type (for object type US): A = Administrator, P = Person, M = Member, G = Group, T = Terminal, B = Batch user.		
File status (for object type FI): PUBL = Public, ACCE = Access, PRIV = Private.			
Start value: An object name (optionally with asterisk notation) to obtain information on a certain range of objects only.			
Date from/to: A range of dates to obtain information only on objects created/last modified within a specific period of time.			
Function: Determines which information is output, and the output sequence:			
S	Output 1.		
A	Output 1, then Output 2 & 3 for one object, then Output 2 & 3 for the next object, etc.		
AE	Output 1, then Output 2, 3 & 4 for one object, then Output 2, 3 & 4 for the next object, etc.		
X	Output 3.		
XE	Output 3 & 4 for one object, then Output 3 & 4 for the next object, etc.		
D	Output 1, then Output 2 for every object.		
Z	Output 1, then Output 2 for every object, then Output 3 for every object.		
ZE	Output 1, then Output 2 for every object, then Output 3 for every object, then Output 4 for every object.		
	US for u code for User typ A = Adr File stat PUBL = Start va An object Date fro A range Function S A AE X XE D Z		

The program RETRIEVE is primarily intended for use in batch mode. However, by issuing the direct command RETRIEVE, you can also invoke the program online: a menu will be displayed for you to specify the selection options.

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